## Rigel

MC 296, S001, ST00BP01 OCS-G-21164 (BHL)

February 25, 2005

Sea Level

5,229' WD

Directional Well w/ KOP @ +/- 8,500' Build to 52° @ 14,600'

(PROPOSED TIEBACK SKETCH)

Angle @ TD of 16,200' = 48°

API # 608174101801

SHL: X = 1,197,146; Y = 10,423,273 BHL: 3,149' FNL & 9,748' FEL of MC-296 ORKB - MWL: 72' (Cajun Express)

SHL: 553' FSL & 6,694' FEL of MC-252

ORKB - ML: 5301' ORKB - WH: 5289'

RKB-ML: ? (Compl rig) RKB-WH: ? (Compl rig)

36", 234 ppf, X-56 @ 5,536' MD.

26", 202.25 ppf, X-56, RL4S @ 6,112' MD/TVD Cmt'd w/ 1482 cf , 13.8 ppg + 494 cf, 14.1 ppg to surf

11.6 ppg SBM in annulus

FMC Hanger: 17.187" ID @ 7,463' MD

20", 164.2 ppf, X-56, S60-MT to 7,906' MD / 7,906' TVD. Cmt'd w/ 3962 cu.ft , 14 ppg + 473 cu.ft, 14 ppg to surface

TOC @ 8,000'

16", 97 ppf, N-80HC, GB-3P-SC to 8,924' MD/ 8921' TVD. Cmt'd w/ 853 cu.ft , 16.4 ppg.

Tested 16" hanger to 2312 psi on 10.2 ppg

TOC @ 9,200'

11-7/8" TOL @ 9,496' MD / 9,468' TVD

13-5/8", 88.2 ppf, Q-125HC, SLSF to 9,732' MD/ 9,680' TVD Cmt'd w/ 444 cu.ft , 16.4 ppg

Tested 13-5/8" casing hanger to 6000 psi on 10.9 ppg Tested 13-5/8" casing to 4600 psi on 10.9 ppg

9-7/8" TOL @ 10,980' MD / 10,663' TVD

11-7/8", 71.8 ppf, Q-125, Hyd 511 @ 11,148' MD/ 10,776' TVD

Cemented with 258 sxs, 16.4 ppg + 745 sxs, 16.4 ppg. Tested 11-7/8" hanger to 1630 psi on 11.4 ppg

Tested 11-7/8" casing to 1575 psi on 11.5 ppg

Rob-E Sand (Upper) 11,558' - 11,580' MD / 11,066 - 11,082' TVD Deviation = 44 deg incl

BHP: 6,410 psi (11.1 ppge)

BHT: 135 F

Rob-E Sand (Lower) 11,640' - 11,680' MD / 11,125' - 11,154' TVD Deviation = 44 deg incl BHP: 6,450 psi (11.1 ppge)

BHT: 135 F

9-7/8", 62.8 ppf, Q-125HC, Hyd 523 @ 13,989' MD / 12,689' TVD Cemented with 986 sxs, 16.4 ppg.

Tested 9-7/8" hanger to 2000 psi on 12.1 ppg.

Vetco HD-H4 Profile FMC; UWD-15 Rigid-lock Wellhead 13' ABM Mudline 11.5 ppg SBM 9-7/8" x 10-3/4" X-O @ 7,500' MD 10-3/4", 65.7 ppf, Q125, Hydril 523 Tieback to ML 9-7/8" Orifice Collar @ 10,900' MD EZSV @ 11720' Block Sqz perfs: 11728' - 11732' Open hole Plug: 15,200 ' - 16,060' MD 427 sxs of 16.4 ppg Class H cement TD: 16,200' MD / 14,162' TVD